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FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. APPLICATION NO. FILING DATE 09/685,197 10/10/2000 Timothy R. Miller 194588US8 4309 7590 02/20/2004 **EXAMINER** Oblon, Spivak, McClelland, Maier & Neustadt LIU, SHUWANG 4th Floor ART UNIT PAPER NUMBER 1755 Jefferson Davis Highway ARLINGTON, VA 22202 2634 DATE MAILED: 02/20/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

1		Application No.	Applicant(s)
فرسا		09/685,197	MILLER ET AL.
	Office Action Summary	Examiner	Art Unit
		Shuwang Liu	2634
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply  A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM			
- Exter after - If the - If NO - Failu Any r earne	MAILING DATE OF THIS COMMUNICA' asions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statutor re to reply within the set or extended period for reply will, eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	7 CFR 1.136(a). In no event, however, may a reation.  Tys, a reply within the statutory minimum of thirty  Ty period will apply and will expire SIX (6) MONT  By statute, cause the application to become ABA	(30) days will be considered timely.  FHS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).
Status			
·	Responsive to communication(s) filed o		
′	,	☐ This action is non-final.	
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.		
Dispositi	on of Claims		
4)🛛	Claim(s) 1-84 is/are pending in the appl	ication.	
	4a) Of the above claim(s) is/are withdrawn from consideration.		
5)	5) Claim(s) is/are allowed.		
-	6) Claim(s) is/are rejected.		
	Claim(s) is/are objected to.		
8)⊠	Claim(s) <u>1-84</u> are subject to restriction a	and/or election requirement.	
Application Papers			
9) The specification is objected to by the Examiner.			
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.			
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).			
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.			
Priority u	nder 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.			
			onligation No
		·	•
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).			
* See the attached detailed Office action for a list of the certified copies not received.			
Attachment	(c)		
_	e of References Cited (PTO-892)	4) Interview St	ummary (PTO-413)
2) 🔲 Notica	e of Draftsperson's Patent Drawing Review (PTO-	948) Paper No(s)	/Mail Date
	nation Disclosure Statement(s) (PTO-1449 or PTC No(s)/Mail Date	5) Notice of Int 6) Other:	formal Patent Application (PTO-152)
		-,	_·

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## DETAILED ACTION

## Election/Restrictions

1. This application contains claims directed to the following patentably distinct species of the claimed invention:

Figure 5 shows one embodiment in which a mode controller determines whether the receiver should be in acquisition or tracking/detection mode based on the estimation of signal and noise power;

Figure 9 shows another embodiment of the mode controller in which a mode controller determines whether the receiver should be in acquisition or tracking/detection mode based on the SNR calculated by computing two parameters; and

Figure 11 shows a third embodiment in which AGC initialization is used to determine whether the mode controller should be in acquisition or tracking/detection mode.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1, 8, 27, 32, 35, 38, 48, 53, and 60 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

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Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 2. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 3. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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## Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shuwang Liu whose telephone number is (703) 308-9556.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin, can be reached at (703) 305-4714.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9306 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Sharrang Tim

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Shuwang Liu Primary Examiner Art Unit 2634

February 4, 2004